

- 5/25 C1*
14. (Amended) A method of scheduling activities comprising:
defining discrete and continuous constraints related to the activities, wherein the continuous constraints are related to other variables by linear mathematical relationships;
representing selected scheduling decisions as discrete and continuous constraints; and
scheduling activities in accordance with [an] integrated implications of the discrete and continuous constraints.
- B2*
15. (Amended) The method of claim 14 and further comprising:
scheduling activities in accordance with previous scheduling decision constraints;
identifying infeasibilities during the scheduling of activities; and[.]
scheduling activities in accordance with identified infeasibilities.
16. (Amended) The method of claim 15 and further comprising:
identifying a culprit activity which resulted in an infeasibility[.]; and
backtracking to the culprit and rescheduling the culprit activity.
- B3*
19. (Amended) A method of modifying scheduled tasks comprising:
updating information related to the scheduled tasks;
modifying a list of activities required to accomplish the tasks based on the updated information;
optionally modifying the activities into sets of smaller activities;
modifying discrete constraints related to the activities;
modifying continuous constraints related to the activities, wherein the continuous constraints are related to other variables by linear mathematical relationships; and
scheduling the activities and smaller activities based on discrete and continuous constraints.
- B4*
27. (Amended) A machine readable medium [have] having computer executable instructions stored thereon for causing a computer to perform a method of scheduling tasks comprising:

creating a list of activities required to accomplish the tasks;
modifying selected activities into sets of smaller activities; and
scheduling the activities and smaller activities based on discrete and continuous
constraints, wherein the continuous constraints are related to other variables by linear
mathematical relationships.

28. (Amended) A machine readable medium [have]having computer executable instructions
stored thereon for causing a computer to perform a method of scheduling activities comprising:

defining discrete and continuous constraints related to the activities, wherein the
continuous constraints are related to other variables by linear mathematical relationships;
representing selected scheduling decisions as discrete and continuous constraints; and
scheduling activities in accordance with an integrated implications of the discrete and
continuous constraints.

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29. (Amended) A machine readable medium [have]having computer executable instructions
stored thereon for causing a computer to perform a method of modifying scheduled tasks
comprising:

updating information related to the scheduled tasks;
modifying a list of activities required to accomplish the tasks based on the updated
information;
optionally modifying the activities into sets of smaller activities;
modifying discrete constraints related to the activities;
modifying continuous constraints related to the activities, wherein the continuous
constraints are related to other variables by linear mathematical relationships; and
scheduling the activities and smaller activities based on discrete and continuous
constraints.

32. (Amended) A system for scheduling tasks comprising:
a continuous constraint solver engine;

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